

Figure 1 (SEQ ID NO 1): Amino acid sequence of the protein PPTA from *P. chrysogenum* coded by the nucleic acid molecule according to the invention (illustrated from the N-terminus to the C-terminus).

1 MVDPGSVSGIT KMDTNDIKQN DIPKDQPTLV RWYMDVRRWD EKYFDLPLLE
51 TLTQPDQAAV KKYYQTSDKR LSLASQLLKYYIHQATGTP WSKIEIQRTP
101 MPENRPFYDS SLDFNVSHQA GLTLFAGTRA ATAHSLSGGP QTLPRVGIDV
151 ACVDEPSRRR ANRPPKTLAD LATFVDVFSD VLSLRELATI KNPYATLKLA
201 RELGLNKSDF SKDDQEVLAA YGIRLFYSIW ALKEAYLKMT GDGLLASWI
251 DLEFTNVVPP EPVQTVGFAG DPSATHAPSV QNWGRPYSDV KISLRGIPDH
301 SVRVQPVGFE SDYIVATAAS GPNIGSVSRQ VVVDNSDHHL PGRITAFDSE
351 TGLQNVRIPP IALRSIGDGD PWRVDSKISD PWLPMQEVDI EIDIRPCADG
401 RCEHLRDLPS F

Figure 2 (SEQ ID NO 2): Genomic DNA sequence of the coding region of the pptA gene of *P. chrysogenum* from the translation start codon (ATG) to the translation stop codon (TAA). The intron is underscored. A single strand from the 5'- to 3'-direction is illustrated.

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1  atggtagacc ccagtgtgtc tggaaattgtq agtaqccaca tagcctccat
51 qagtqacacc actqaccaat ttcaqaccaa aatggatacc aatgatata
101 aacagaatga catccccaaag gaccagccca cgttggtccg atggtacatg
151 gatgtcagac gttgggatga aaaatacttt gatctccctt tgcttgaac
201 cttaacacag cctgatcagg cagctgtcaa gaagtaactat caaacatcg
251 acaaggcctt gtccttggcc tcccagttgc taaaatattt ctacattcac
301 caagccactg gcactccctg gagcaagatt gagatccagc gtactccgat
351 gcccggaaat cgaccattct acgattcaag octggatttc aacgtcagcc
401 atcaggctgg tctcactctg ttcgcaggca cgcgtgccgc aacagccac
451 tccttatccg gtggaccta aacattgcct cgcgtggaa ttgacgttgc
501 gtgtgttgc taaaatattt gtcgtcgtgc taatcgccc cccaagacac
551 ttgccgacct tgcaacctt cgtggatgtct tcagtgcacgt tctctcaactc
601 cgtgagcttgc cgaccatcaa gaacccgtac gcgcacttta aattggctcg
651 tgagcttggg ctgaataaaaaa gtgaccggag caaagacgac caggaagtcc
701 ttgctgccta cggcattcgg ctgttctact cgatttgggc tctcaaggag
751 gcttacttga aaatgaccgg agacggcctt ctggcctctt ggataaaagga
801 tctggaaattc acaaacgttgc ttccccccga accagttcaa acagtcggat
851 ttgctgggtga tccttctgccc actcacgcgc cctcggtccca aaattggggc
901 cggccttact ccgatgtcaa aatctccttgc cgtggcattt ctgaccattt
951 tggcgcggtt cagctcgtcg gcttcgagtc cgactacata gttgccacgg
1001 cccgcgtcggtt ccccaatattt ggatccgttt cgcggcaggt agtcgtgaat
1051 gacagcgatc accatctgccc agggcgatc acagccttcg actctgagac
1101 tggactccag aacgtccgca ttcccccaat cgcgcttcga tcaattggcg
1151 atggggaccc ctggcggtgtt gactcgaaaaa tcagcgaccc ctggctcccc
1201 atgcaggagg tcgatattga aatcgatatac cggccctgtt cggatggcgt
1251 ttgcgagcac ctacgggatttaccaagttttaa
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Figure 3 (SEQ ID NO 3): cDNA sequence of the coding region of the pptA gene of *P. chrysogenum* from the translation start codon (ATG) to the translation stop codon (TAA); a single strand from the 5'- to 3'-direction is illustrated.

1 atggtagacc ccagtgtgtc tggaattacc aaaatggata ccaatgatat
51 caaacagaat gacatcccc aaggaccagcc cacgttggtc cgatggtaca
101 tggatgtcag acgttggat gaaaataact ttgatctccc tttgcttcaa
151 accttaaacac agcctgatca ggcagctgtc aagaagtact atcaaacatc
201 ggacaagcgc ctgtcccttgg cctcccagtt gctgaaatat tactacattc
251 accaagccac tggcactccc tggagcaaga ttgagatcca gcgtactccg
301 atgcccggaaa atcgaccatt ctacgattca agcctggatt tcaacgtcag
351 ccatcaggct ggtctcactc tgttcgcagg cacgcgtgcc gcaacagccc
401 actccttatac cggtgacccctt caaacattgc ctcgcgtggg aattgacgat
451 gcgtgtgttgc atgaaccctc tcgtcgctgt gctaattgtc ccccaagac
501 acttggccgac cttgcaacct tcgtggatgt cttcagtgac gttctctcac
551 tccgtgagct tgcgaccatc aagaacccgt acgcgactct taaattggct
601 cgtgagcttg gtctgaataa aagtgacccg agcaaagacg accaggaagt
651 ccttgcgtgcc tacggcattc ggctgttcta ctcgatttgg gctctcaagg
701 aggcttactt gaaaatgacc ggagacggcc ttctggcctc ttggataaag
751 gatctggaaat tcacaaacgt tgccccccca gaaccagttc aaacagtcgg
801 atttgcttgtt gatccttctg ccactcacgc gccctcggtc caaaatttggg
851 gcccggctta ctccgatgtc aaaatctctt tgctgtggcat tcctgaccat
901 tctgtgcgcg ttcaagccgt cggcttcgag tccgactaca tagttgccac
951 ggccgcgtcg ggcccaata ttggatccgt ttgcggcag gtatcgat
1001 atgacagcga tcaccatctg ccagggcgta tcacagcctt cgactctgag
1051 actggactcc agaacgtccg cattccccca atcgccctc gatcaattgg
1101 cgatggggac ccctggcgtg tggactcgaa aatcagcgac ccctggctcc
1151 ccatgcagga ggtcgatatt gaaatcgata tccggccctg tgccggatgg
1201 cgttgcgcgac acctacggga tttaccaagc ttttaa

Figure 4 (SEQ ID NO 4): Genomic DNA sequence of a Sall fragment of a genomic clone of the pptA gene (a single strand from the 5'- to 3'-direction is illustrated). The translation start codon (ATG) and the translation stop codon (TAA) of the coding region are underscored and illustrated in bold; the intron is underscored.

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1  gtcgaccgaa  gtggttcgg  ttcactcgca  catcaagacc  accgatcagc
51  tcttgcgcgc  ccttcttgc  cttgttggca  gactcgccaa  gcaaaatgag
101  cccggcgcat  gtacccacg  tcggtttgcg  atccactctg  cataaccac
151  gtattagatc  gaattgatat  ggactaacc  ggttcactca  cttaacgaaat
201  tctcgcagtg  gctcgagaag  atttgaccc  gctgcgacta  aagacatagt
251  ggtactctcg  cctccgggca  agaccaggcc  gtcgcattgtt  gccagttctt
301  gtggcgtccg  tacttcaatg  aagtgcatt  ccgacggctg  cgcttgcgtca
351  gcggcctttt  tcaaaagctg  cacatgctca  aagaatgcgc  cctgttagggc
401  caggactcca  acagtgatag  ccatttcctc  tgaagatcg  aattgcggac
451  cctccgagct  cgggtgcttc  ttgatattga  tgactctttt  taaagcacat
501  gactttgact  ttccggcggg  gaacgtatca  acacgtgatg  gcggcttatac
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651  aaacaaatag  actcacctac  agaaagagt  ataagttagg  tcctataacct
701  gtttcaatg  tttctctc  ttgctgatc  agctttaaca  tatctatgga
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1001  caatgcaatq  gtagaccc  gtgtgtctgg  aattgtqagt  aqccacataq
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1501  acgttgcgt  tggatgaa  ccctctcg  gtcgtctaa  tctgtcccccg
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1901  ttggggcc  cttact  atgt  ctccttgc  ggcattcctg
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2001  gcca  cgtc  caatatt  tccgtt  ggcaggttagt
2051  cgt  aac  atctgc  gcgtat  gccttcgact
2101  ctg  aac  gtccgc  ccccaat  gttcgatca
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2251 atggtcgttg cgagcaccta cgggatttac caagcttta aattccttct
2301 tgctggata tgaccaggcg accatgcacc cgagttattt gcatattgca
2351 ttccttcattc tcatattcct ttctgagcgt gttttcggg gcgataatta
2401 cccttgaaca tatttctgca ttgctgtatt gccattagcg aaaattcccg
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3101 gacgccgtt ggcgcagcac catcgacccat attttatgc gcgtgggaca
3151 ttgctgcaag agtttgagc atcgaatccc gcgtcgac